

# **Nuclear Material Stabilization and Disposition (RL-0011)**

**D. B. Klos, Vice President of Plutonium  
Finishing Plant Closure Project/  
(509) 373-3574**



***HUFP Project Facility Mods***



***Completed PRF  
column glovebox  
cleanout***



***Filter Room 315***

## Overview

This section addresses work in Project Baseline Summary (PBS) RL-0011, *Nuclear Material Stabilization and Disposition*.

NOTE: Unless otherwise noted, all information contained herein is as of the end of August 2008.

## Notable Accomplishments

### Disposition the Plutonium Finishing Plant (PFP) Facility

#### SNM De-inventory

- Continued activities in support of 3013 de-inventory
- Transmitted the revised Hanford Unirradiated Fuel Package (HUF) Safety Analysis Report for Packaging (SARP) to DOE-RL
- Awarded the contract for the facility modifications for loading and staging the HUF
  - Completed the ground scanning for facility modifications for handling the HUF
  - Staging of equipment is scheduled to begin August 25th
- DOE approved the shipper-receiver plan for the unirradiated fuel and formally transmitted to DOE-SR

#### Disposition PFP

- Completed cleanout of one Plutonium Reclamation Facility (PRF) Column glovebox
- Continued PRF glovebox cleanout:
  - Continued with the size reduction of internal components inside gloveboxes 50 and 60
  - Completed venting two Boron tri-Fluoride detector tubes in glove box 50
  - Sealed equipment and initiated process equipment removal from glove box 60
- Continued Process Facilities Temporary Lay-Up
  - Drained and removed flow meter above HA-9A
- Tri-Party Agreement (TPA) milestone change request to delete the TPA interim milestone M-083-41 on the removal of the 216-Z-9 structures was approved by DOE-RL and formally transmitted to Ecology for approval
- Continued Min-Safe Maintenance Activities
  - Completed entry into filter room 315 and replaced aerosol injection manifold
  - Completed excavation, and final water tie-in for 2736-ZC swamp coolers
  - Completed replacement of Supply Fan SF-3 bearings

## FY 2008 Funds vs. Spend Forecast (\$M)

	Projected FY 2008 Funding	FY 2008 Fiscal Year Spending Forecast	Variance
<b>Nuclear Materials Stabilization and Disposition</b>	<b>\$ 90.1</b>	<b>\$ 80.2</b>	<b>\$ 9.8</b>

## Schedule/Cost Performance (\$M)

Nuclear Materials Stabilization & Disposition	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance \$	Schedule Variance %	Cost Variance \$	Cost Variance %	Budget At Completion (FY08/CTD)
Current Period (Month)	\$9.2	\$6.7	\$5.3	-\$2.5	-27.3%	\$1.4	21.3%	\$93.4
Cumulative to Date (FY 2004 - Present)	\$665.1	\$661.9	\$617.9	-\$3.2	-0.5%	\$44.0	6.7%	\$677.3

Numbers are rounded to the nearest \$0.1M and include the closure services allocation.

**CTD Schedule Performance: (-\$3.2M/-0.5%):** The unfavorable schedule variance is primarily the result of:

- Delay in award of HUFPP fabrication contract as well as revised delivery schedule for long lead materials.
- Delays in FY 2008 lay-up activities (acid line draining).

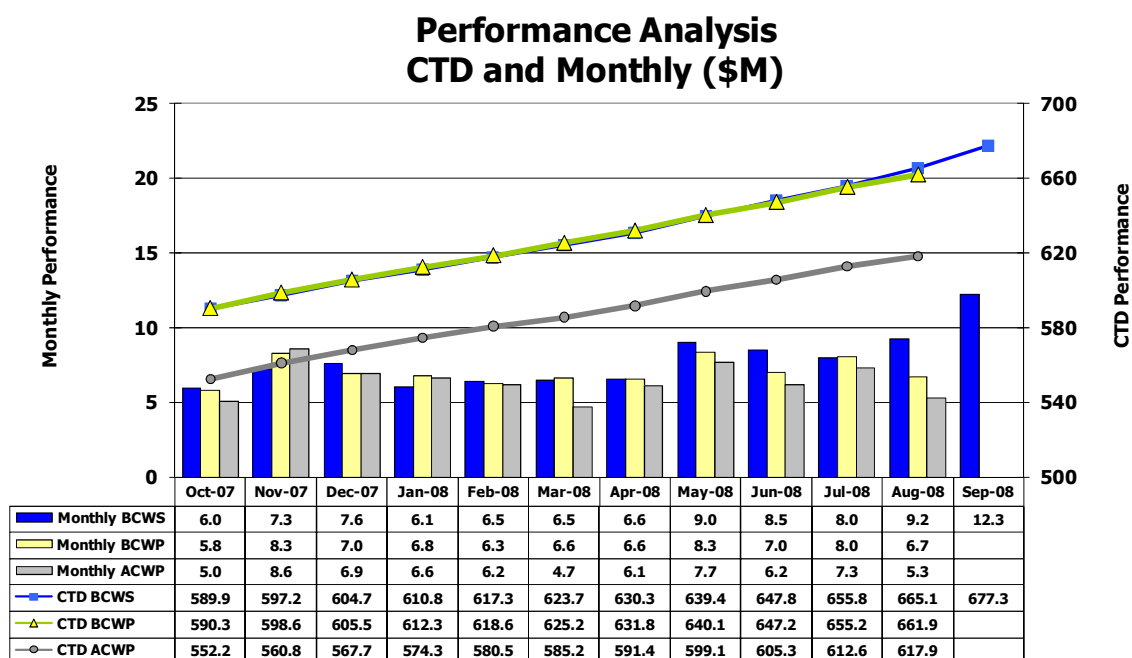
Variance is partially offset by:

- Accelerated progress on glovebox cleanout in Active Remote Mechanical A/C lines (RMA/RMC), Inactive RMA/RMC, PRF, and associated apportioned support activities.

**CTD Cost Performance: (+\$44.0M/+6.7%):** The positive cost variance is due to:

- A concerted effort to extend maintenance frequencies, efficient roof repair, early completion of MICON recabling under cost, partially offset by recent increased maintenance activities associated with aging facility systems and components.
- Early completion of Special Nuclear Material (SNM) Stabilization.
- Efficiencies in miscellaneous materials disposition work, reduced resource requirements for prior year SNM de-inventory activities, and SNM disposition planning, partially offset by increased costs for planned disposition of unirradiated fuels.
- Favorable Solid Waste disposition rates, efficiencies in glovebox planning and cleanout in 234-5Z, 241-Z cell stabilization, and associated apportioned support activities.
- Reduced overhead costs/allocations to the PFP Project.

## Schedule/Cost Performance , continued (\$M)



## Milestone Achievement

Hanford Federal Facility Agreement and Consent Order (Tri-Party Agreement) milestones represent significant events in project execution. DOE Enforceable Agreement milestones were established to provide high-level visibility to critical deliverables and specific status on the accomplishment of these key events. The FY 2008 Enforceable Agreement milestone and Performance Incentives (PIs) information provided herein is based upon the current baseline including RL-approved changes. Changes from month-to-month in both the total number of milestones to be completed and in the forecast status of upcoming milestones are the result of Baseline Change Requests (BCRs) approved during the reporting period.

Number	Milestone Title	Type	Due Date	Actual Date	Forecast Date	Status/Comments
TRP-08-004	Removal Action Work Plan for the 216-Z-9 Crib Complex Submitted to DOE	PI	9/30/2008	4/14/2008		Complete
TRP-08-005	Implement the Necessary Lay-up Activities to Place PFP in a Safe Configuration Until D&D Resumes	PI	9/30/2008	12/6/2007		Complete
TRP-08-006	Internal cleanout of up to 9 additional contaminated gloveboxes and glovebox HA-23	PI	9/30/2008	5/13/2008		Complete
TRP-08-025	Complete 216-Z-9 Facility Condition Analysis by 30 September 2008	PI	9/30/2008	12/6/2007		Complete
TRP-08-027	Complete internal cleanout of one 234-5Z glovebox/conveyer	PI	9/30/2008	11/13/2007		Complete
TRP-11-502	Complete Closure of the PFP 241-Z TSD Unit	PI	9/30/2011	2/22/2007		Complete
TRP-11-503	Complete Transition and Dismantlement of 241-Z Waste Treatment Facility	PI	9/30/2011	6/8/2007		Complete